

ABSTRACT

A reciprocating compressor includes a compressing unit placed over a motor unit. A crankshaft, which converts rotating action of the motor unit into reciprocating action of a piston of the compressing unit, has (a) a centrifugal pump prepared at a lower section of the crankshaft, and (b) a pair of spiral pumps that communicate with the centrifugal pump and have leading grooves running in an opposite direction to each other. The crankshaft also includes a pair of eccentric paths at its upper section. The eccentric paths open into an enclosed container and communicate with the spiral pumps respectively. This structure allows producing greater force for transferring lubricant oil regardless of rotating directions of the crankshaft.